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DEPARTMENT OF THE INTERIOR

BULLETIN

OF THE

UNITED STATES

GEOLOGICAL SURVEY

No. 169

WASHINGTON
GOVERNMENT PRINTING OFFICE
1900

UNITED STATES GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

ALTITUDES IN ALASKA

COMPILED BY

HENRY GANNETT

WASHINGTON
GOVERNMENT PRINTING OFFICE
1900

LETTER OF TRANSMITTAL.

DEPARTMENT OF THE INTERIOR,
UNITED STATES GEOLOGICAL SURVEY,
Washington, D. C., February 5, 1900.

SIR: I have the honor to transmit herewith, for publication as a bulletin, a list of altitudes in Alaska, drawn mainly from the charts and other publications of the United States Coast and Geodetic Survey and the publications of this office.

Very respectfully,

HENRY GANNETT,
Geographer.

Hon. C. D. WALCOTT,
Director United States Geological Survey.

ALTITUDES IN ALASKA.

BY HENRY GANNETT.

Locality.	Authority.	Elevation.
		Feet.
Achilles Mountain	U. S. Coast and Geodetic Survey.	3,027
Adakh Island	do	5,678
Adams Mountains	do	7,600
Agassiz Mountain	do	2,241
Agassiz Peak	do	5,931
Aghik Island (Semidi Islands)	do	250
Aghiyuk Island (Semidi Islands)	do	1,500
Akutan Island (Fox Islands)	do	3,888
Alikhsemit Island (Semidi Islands)	do	300
Amagat Island	do	1,900
Amak Island	do	1,682
Amatignak Island	do	1,921
Ambler Peak	do	3,058
Amlia Island	do	1,900
Amukta Island	do	3,738
Ancon Peak (Woronkofski Island)	do	3,300
Anowik Island (Semidi Islands)	do	650
Anvil Mountain (Annette Island)	do	2,157
Arkell Lake	do	2,700
Arm Mountain	do	2,177
Arthur Peak	do	3,434
Atka Island	do	4,988
Augustine Island	do	[1]3,000
Avatanak (Fox Islands)	do	1,207
Bainbridge Peak	do	3,467
Bald Ridge (Annette Island)	do	2,241
Barlow Mountain (Mansfield Peninsula)	do	2,142
Bay Point Knoll	do	2,108
Beauclerc Peak	do	2,500
Behm Mountain	do	2,867
Bell Island	do	2,500
Bence Mountain	U. S. Geological Survey	4,800
Berry Knoll	U. S. Coast and Geodetic Survey.	894
Berry Peak (Wrangell Island)	do	2,500
Bessie Peak	do	4,130
Between Mountain	do	1,526
Big Diomede Island (Bering Strait)	do	1,759
Big Mountain	do	8,750
Blackburn, Mount	do	12,500
Black Crag	do	5,895
Black Mountain	do	1,883
Black Mountain	do	5,130
Black, Mount	do	12,500
Black Thorn	do	4,010

[1] Approximate.

Locality.	Authority.	Elevation.
		Feet.
Bobrof Island	U. S. Coast and Geodetic Survey.	1,392
Bohemian Range	....do	2,144 2,589 1,784
Boundary Mountain	....do	4,805
Buldir Island	....do	1,145
Butler Peak	....do	1,153
Calder, Mount (Prince of Wales Island)	....do	3,371
Campbell Mountains	....do	5,500
Cane Mountain	....do	6,100
Carlisle Island (Islands of Four Mountains)	....do	7,500
Carter, Mount	U. S. Geological Survey	4,700
Cascade	U. S. Coast and Geodetic Survey.	3,900
Case, Mount	....do	5,510
Chapeau Mountain	....do	2,000
Chenango Mountain (Annette Island)	....do	2,987
Chichagof Peak	....do	2,600
Chilkat Pass	....do	3,100
Chilkoot Pass	....do	3,500
Chipp Peak	....do	2,532
Chisana Mountain	U. S. Geological Survey	3,200
Chowiet Island	U. S. Coast and Geodetic Survey.	1,200
Chugatch Mountains	U. S. Geological Survey	5,000 to 6,000
Chugul Island	U. S. Coast and Geodetic Survey.	4,300
Clara, Mount	....do	6,000
Cleveland, Mount (Islands of Four Mountains)	....do	8,156
Coghlan Island	....do	436
Cone Mountain	....do	2,718
Cook, Mount	....do	13,758
Copper Mountain Range	U. S. Geological Survey	4,000 to 6,000
Cosmos Range	U. S. Coast and Geodetic Survey.	3,279
Cove Hill	....do	619
Cranberry Peak	U. S. Geological Survey	5,200
Crater Lake (Chilkoot Pass)	U. S. Coast and Geodetic Survey.	3,500
Crater Mountain	....do	633
Crillon, Mount	....do	15,900
Cross Mountain	....do	2,597
D'Agelet, Mount	....do	9,708
Dahlgren Peak	....do	3,502
Dana Peak	....do	4,260
Davison Mountain (Annette Island)	....do	2,652
DeLong Peak	....do	3,737
Devils Thumb	....do	9,062
Dome Mountain	....do	2,100
Dome Peak	....do	6,500
Drum, Mount	....do	13,300
Dry Island	....do	2,460
Duke Hill (Duke Island)	....do	540
Du Relle, Mount	U. S. Geological Survey	4,300
Dyke Mountain	....do	6,700
Eads Peak	U. S. Coast and Geodetic Survey.	4,636
Eagle Crag	....do	5,705

Locality.	Authority.	Elevation.
		Feet.
East Peak	U. S. Geological Survey	4,900
Edgecumbe, Mount	U. S. Coast and Geodetic Survey.	2,800
Elbow Mountain	do	4,111
Emmerich, Mount	do	6,940
Entry Peak (Prince of Wales Island)	do	1,400
Ericson Peak	do	4,296
Etolin, Mount	do	3,778
Evans, Mount	U. S. Geological Survey	5,400
Everett Peak	U. S. Coast and Geodetic Survey.	3,645
Fairweather, Mount	do	15,292
Fanshaw, Mount	do	2,818
Fawn Mountain	do	2,112
Fighting John Peak	do	5,078
Figure Four Mountain	U. S. Geological Survey	2,200
Fillmore Peak	U. S. Coast and Geodetic Survey.	3,633
Flag Hill	U. S. Geological Survey	1,200
Flat Mountain	U. S. Coast and Geodetic Survey.	1,800
Fortymile Dome	U. S. Geological Survey	3,900
Fox Hill	U. S. Coast and Geodetic Survey.	563
Francis, Mount	U. S. Geological Survey	4,800
Franklin Peaks	U. S. Coast and Geodetic Survey.	4,314
Do	do	3,909
Fulton Peak	do	3,252
Gable Mountain	do	4,490
Gap Mountain	do	3,400
Gareloi Island	do	5,334
Garrett Peak	U. S. Geological Survey	5,700
Glacier Mountain	U. S. Coast and Geodetic Survey.	4,769
Glacier Mountain	U. S. Geological Survey	6,000
Golden Horn	U. S. Coast and Geodetic Survey.	6,400
Grant Peak	do	5,291
Gray Peak	do	4,694
Great Sitkin Island	do	5,033
Haeckel Hill	do	3,900
Hall Peak	do	3,726
Hamilton, Mount	U. S. Geological Survey	2,000
Hancock Peak	U. S. Coast and Geodetic Survey.	3,851
Harbor Peak	do	2,200
Harold, Mount	do	3,430
Harrison, Mount	do	6,955
Harry Saddle	do	2,088
Hawthorne Peak	do	4,021
Hayes, Mount	U. S. Geological Survey	14,500
Helmick Mountain	do	2,000
Herbert Island (Islands of Four Mountains).	U. S. Coast and Geodetic Survey.	5,291
Hog Back	do	300
Horn Mountain	do	2,929
Howard, Mount (Kuiu Island)	do	2,340
Hump Knoll	do	3,116
Hunt Peak	do	3,494
Iliamna Peak	do	12,066
Insignificant Ridge (Annette Island)	do	2,987
Irving Peak	do	2,169

Locality.	Authority.	Elevation.
		Feet.
Iskoot Mountain	U. S. Coast and Geodetic Survey.	4,799
Jade Mountains	do	3,500
Jamestown Peak	do	2,940
Janesville Mountain (Annette Island)	do	2,620
Jenkins Peak	do	3,292
Jubilee Mountain	do	6,380
Judy Hill	do	631
Kane Peak	do	3,292
Kasatocki Island	do	1,018
Kateekhuk Island	do	1,200
Kate, Mount	U. S. Geological Survey	4,600
Kates Needle	U. S. Coast and Geodetic Survey.	9,954
Katété Mountain	do	4,170
Keelikhtagikh Island (Semidi Islands)	do	750
Kimball, Mount	U. S. Geological Survey	10,000
Knob	U. S. Coast and Geodetic Survey.	4,250
Koniuji Island (Aleutian Islands)	do	1,113
Korovin Volcano (Atka Island)	do	4,852
Kusilvak Mountain	do	2,449
Kyska Island	do	3,700
Landslide	do	4,798
Lansdowne, Mount	do	6,140
La Perouse, Mount	do	10,740
Laura, Mount	do	7,527
Lazaro, Mount (Duke Island)	do	1,767
Leadville Mountain	do	1,797
Lincoln Peak	do	4,894
Little Sitkin Island (Aleutian Islands)	do	3,585
Lituya Mountain	do	11,832
Lockwood Peak	do	3,510
Logan, Mount	do	9,000
Longfellow Peak	do	2,955
Lorne, Mount	do	6,400
McDonough, Peak	do	2,873
McGrath, Mount	do	6,179
McKinley, Mount	U. S. Geological Survey	20,464
McMillan Mountains	U. S. Coast and Geodetic Survey.	3,500
Madison Peak	do	2,507
Makushin Mountain	do	5,474
Marr, Mount	U. S. Coast and Geodetic Survey.	2,447
Marshall Mountain	U. S. Geological Survey	5,200
Marshall Peak	U. S. Coast and Geodetic Survey.	3,017
Maury Peak	do	5,566
Mayer Peak	U. S. Geological Survey	6,100
Meiklejohn Pass	do	4,500
Mentasta Pass	do	2,300
Michie Mountain	U. S. Coast and Geodetic Survey.	5,540
Miners Range	do	4,000 to 4,500
Missionary Ridge	do	2,450 2,650 2,715 2,851
Moosehorn Mountain	U. S. Geological Survey	5,000

Locality.	Authority.	Elevation.
		Feet.
Moss Mountain	U. S. Coast and Geodetic Survey.	1,631
Mound Hill	do	1,956
Muckacharne	do	1,600
Mud Glacier	do	5,426
Nakat Mountain	do	2,921
Navy Peak	do	3,734
Nichols Hills	do	250
North Quadra Mountain	do	2,353
Notch Mountain	do	1,879
Oratia Mount	U. S. Geological Survey	6,000
Ourand Mount	do	4,300
Parsons Peak	U. S. Coast and Geodetic Survey.	5,500
Patterson Peak	do	4,746
Pelly Mountains	do	5,000 to 7,000
Pinnacle	do	8,346
Pogrumnoi Volcano (Unimak Island)	do	5,523
Porter Peak	do	4,798
Portland Island	do	206
Powell Knob	do	2,655
Purple Mountain (Annette Island)	do	2,447
Putnam Peak	do	3,887
Pyramid Peak	do	4,068
Quay Peak (Chugatch Mountains)	U. S. Geological Survey	5,000
Red Bay Mountain	U. S. Coast and Geodetic Survey.	2,843
Red Mountain	do	2,404
Reverdy Mountains	do	5,485
Rich Mountain	U. S. Geological Survey	5,000
Ripinski, Mount	U. S. Coast and Geodetic Survey.	4,060
Romig, Mount	U. S. Geological Survey	2,500
Rootok Island	U. S. Coast and Geodetic Survey.	3,888
Roundabout Mountain	U. S. Geological Survey	1,000
Round Hill	U. S. Coast and Geodetic Survey.	1,647
St. Elias, Mount	do	18,024
St. Michaels Mountain	do	472
St. Paul (one of Pribilof Islands)	do	633
Sajaca (Tanaga Island)	do	7,103
Sanford, Mount	U. S. Geological Survey	14,000
Sannak Peak (Sannak Island)	U. S. Coast and Geodetic Survey.	1,850
Saranac Peak	do	2,683
Seattle, Mount	do	10,000
Seguam Island	do	2,098
Semichi Islands	do	818
Seminow Hills	do	3,500 to 4,000
Sentinel Peak	do	4,250
Seward Mountains	do	[1] 4,000
Sharp Peak	U. S. Geological Survey	5,900
Shed Mountain	U. S. Coast and Geodetic Survey.	2,620
Shell Hills	U. S. Geological Survey	1,500 to 1,700

[1] Approximate.

Locality.	Authority.	Elevation.
		Feet.
Shishaldin Volcano (Unimak Island)	U. S. Coast and Geodetic Survey.	8,952
Simpson, Mount	U. S. Geological Survey	5,200
Simpson Mountains	U. S. Coast and Geodetic Survey.	6,500
Snow Cap	do	5,078
Snow Tower	do	7,100
Snowy Mountain	do	5,577
South Island (Semidi Islands)	do	250
South Quadra Mountain	do	1,764
Spirit Mountain	U. S. Geological Survey	3,000
Split Top Mountain	do	2,100
Spuhn Island	do	246
Stephens Mountain	do	331
Stripe Mountain	do	2,300
Stuart Mountain (Stuart Island)	do	483
Sugar Loaf Mountain	do	5,259
Sukhlikh Island (Semidi Islands)	do	200
Summit Glaciers	do	5,700
Summit Peaks	U. S. Geological Survey	5,800
Sunny Mountain	do	4,400
Sunset Island	U. S. Coast and Geodetic Survey.	404
Survey Mountains	do	2,916
Sushitna, Mount	do	5,500
Taku Mountain	do	2,170
Tamgas Mountain (Annette Island)	do	3,684
Tanaga Island	do	6,975
Tangent Peak	do	2,449
Tent Mountain	do	7,100
Terrace Mountain	U. S. Geological Survey	6,000
The Nipples	U. S. Coast and Geodetic Survey.	2,900
The Sisters	do	1,021 1,325 1,308 1,369 1,555 1,680 1,593 1,589 1,350
Thomas, Mount	U. S. Geological Survey	5,400
Thunder Mountain	U. S. Coast and Geodetic Survey.	3,080
Tigalda Island	do	1,207
Tillman, Mount	U. S. Geological Survey	13,300
Tohtankella Mountain	U. S. Coast and Geodetic Survey.	3,000
Trout Hill	do	893
Tsesiuh Mountains	do	3,500
Turner, Mount	do	5,953
Twin Peaks	do	6,638
Vancouver, Mount	do	15,666
Verstovaia, Mount	do	3,216
Villard, Mount	do	5,100
Vsevidof Volcano (Umnak Island)	do	8,000
Wagner, Lake	U. S. Geological Survey	1,900
Warm Spring Mountain	U. S. Coast and Geodetic Survey.	3,370
Washington Peak	do	3,557
Waterfall Peak	do	3,403
Webster Peak	do	3,254

Locality.	Authority.	Elevation.
		Feet.
West Peak	U. S. Geological Survey	5,600
Whipple, Mount	U. S. Coast and Geodetic Survey.	6,033
White Pass	do	2,886
Wilkes Peak	do	3,156
Willoughby Island	do	1,545
Wrangell Peak	do	3,800
Wrangell, Mount	do	17,500
Wright, Mount	do	4,944
Do	do	6,300
Yellow Hill (Annette Island)	do	554
Yenlo Mountain	U. S. Geological Survey	4,000
Young, Mount	U. S. Coast and Geodetic Survey.	5,260
Yukon Hills	do	1,000 to 2,500
Yunaska Island	do	2,864

ADVERTISEMENT.

[Bulletin 169.]

The statute approved March 3, 1879, establishing the United States Geological Survey, contains the following provisions:

"The publications of the Geological Survey shall consist of the annual report of operations, geological and economic maps illustrating the resources and classification of the lands, and reports upon general and economic geology and paleontology. The annual report of operations of the Geological Survey shall accompany the annual report of the Secretary of the Interior. All special memoirs and reports of said Survey shall be issued in uniform quarto series if deemed necessary by the Director, but otherwise in ordinary octavos. Three thousand copies of each shall be published for scientific exchanges and for sale at the price of publication; and all literary and cartographic materials received in exchange shall be the property of the United States and form a part of the library of the organization; and the money resulting from the sale of such publications shall be covered into the Treasury of the United States."

Except in those cases in which an extra number of any special memoir or report has been supplied to the Survey by resolution of Congress or has been ordered by the Secretary of the Interior, this office has no copies for gratuitous distribution.

ANNUAL REPORTS.

I. First Annual Report of the United States Geological Survey, by Clarence King. 1880. 8°. 79 pp. 1 map.—A preliminary report describing plan of organization and publications.

II. Second Annual Report of the United States Geological Survey, 1880–'81, by J. W. Powell. 1882. 8°. lv, 588 pp. 62 pl. 1 map.

III. Third Annual Report of the United States Geological Survey, 1881–'82, by J. W. Powell. 1883. 8°. xviii, 564 pp. 67 pl. and maps.

IV. Fourth Annual Report of the United States Geological Survey, 1882–'83, by J. W. Powell. 1884. 8°. xxxii, 473 pp. 85 pl. and maps.

V. Fifth Annual Report of the United States Geological Survey, 1883–'84, by J. W. Powell. 1885. 8°. xxxvi, 469 pp. 58 pl. and maps.

VI. Sixth Annual Report of the United States Geological Survey, 1884–'85, by J. W. Powell. 1885. 8°. xxix, 570 pp. 65 pl. and maps.

VII. Seventh Annual Report of the United States Geological Survey, 1885–'86, by J. W. Powell. 1888. 8°. xx, 656 pp. 71 pl. and maps.

VIII. Eighth Annual Report of the United States Geological Survey, 1886–'87, by J. W. Powell. 1889. 8°. 2 pt. xix, 474, xii pp. 53 pl. and maps; 1 p. l., 475–1063 pp. 54–76 pl. and maps.

IX. Ninth Annual Report of the United States Geological Survey, 1887–'88, by J. W. Powell. 1889. 8°. xiii, 717 pp. 88 pl. and maps.

X. Tenth Annual Report of the United States Geological Survey, 1888–'89, by J. W. Powell. 1890. 8°. 2 pt. xv, 774 pp., 98 pl. and maps; viii, 123 pp.

XI. Eleventh Annual Report of the United States Geological Survey, 1889–'90, by J. W. Powell. 1891. 8°. 2 pt. xv, 757 pp., 66 pl. and maps; ix, 351 pp., 30 pl.

XII. Twelfth Annual Report of the United States Geological Survey, 1890–'91, by J. W. Powell. 1891. 8°. 2 pt. xiii, 675 pp., 53 pl. and maps; xviii, 576 pp., 146 pl. and maps.

XIII. Thirteenth Annual Report of the United States Geological Survey, 1891–'92, by J. W. Powell. 1893. 8°. 3 pt. vii, 240 pp., 2 maps; x, 372 pp., 105 pl. and maps; xi, 486 pp., 77 pl. and maps.

XIV. Fourteenth Annual Report of the United States Geological Survey, 1892–'93, by J. W. Powell. 1893. 8°. 2 pt. vi, 321 pp., 1 pl.; xx, 597 pp., 74 pl.

XV. Fifteenth Annual Report of the United States Geological Survey, 1893–'94, by J. W. Powell. 1895. 8°. xiv, 755 pp. 48 pl.

XVI. Sixteenth Annual Report of the United States Geological Survey, 1894–'95, by Charles D. Walcott, Director. 1895. (Part I, 1896.) 8°. 4 pt. xxii, 910 pp., 117 pl. and maps; xix, 598 pp., 43 pl. and maps; xv, 646 pp., 23 pl.; xix, 735 pp., 6 pl.

XVII. Seventeenth Annual Report of the United States Geological Survey, 1895–'96, Charles D. Walcott, Director. 1896. 8°. 3 pt. in 4 vol. xxii, 1076 pp., 67 pl. and maps; xxv, 864 pp., 113 pl. and maps; xxiii, 542 pp., 8 pl. and maps; iii, 543–1058 pp., 9–13 pl.

XVIII. Eighteenth Annual Report of the United States Geological Survey, 1896–'97, Charles D. Walcott, Director. 1897. (Parts II and III, 1898.) 8°. 5 pt. in 6 vol. 440 pp., 4 pl. and maps; v, 653 pp., 105 pl. and maps; v, 861 pp., 118 pl. and maps; x, 756 pp., 102 pl. and maps; xii, 642 pp., 1 pl.; 643–1400 pp.

XIX. Nineteenth Annual Report of the United States Geological Survey, 1897–'98, Charles D. Walcott, Director. 1898. (Parts II, III, and V, 1899.) 8°. 6 pt. in 7 vol. 422 pp., 2 maps; v, 958 pp., 172 pl. and maps; v, 785 pp., 99 pl. and maps; viii, 814 pp., 118 pl. and maps; xvii, 400 pp., 110 pl. and maps; viii, 651 pp., 11 pl.; viii, 706 pp.

XX. Twentieth Annual Report of the United States Geological Survey, 1898–'99, Charles D. Walcott, Director. 1899. 8°. 7 pt. in 8 vol. 551 pp., 2 pl.; v, 953 pp., 193 pl. and maps; v, 595 pp., 78 pl. and maps; vii, 660 pp., 75 pl. and maps; xix, 498 pp., 159 pl. and maps; viii, 616 pp.; xi, 804 pp., 1 pl.; v, 509 pp., 38 pl. and maps.

MONOGRAPHS.

I. Lake Bonneville, by Grove Karl Gilbert. 1890. 4°. xx, 438 pp. 51 pl. 1 map. Price $1.50.

II. Tertiary History of the Grand Cañon District, with Atlas, by Clarence E. Dutton, Capt., U. S. A. 1882. 4°. xiv, 264 pp. 42 pl. and atlas of 24 sheets folio. Price $10.00.

III. Geology of the Comstock Lode and the Washoe District, with Atlas, by George F. Becker. 1882 4°. xv, 422 pp. 7 pl. and atlas of 21 sheets folio. Price $11.00.

IV. Comstock Mining and Miners, by Eliot Lord. 1883. 4°. xiv, 451 pp. 3 pl. Price $1.50.

V. The Copper-Bearing Rocks of Lake Superior, by Roland Duer Irving. 1883. 4°. xvi, 464 pp. 151. 29 pl. and maps. Price $1.85.

VI. Contributions to the Knowledge of the Older Mesozoic Flora of Virginia, by William Morris Fontaine. 1883. 4°. xi, 144 pp. 54 l. 54 pl. Price $1.05.

VII. Silver-Lead Deposits of Eureka, Nevada, by Joseph Story Curtis. 1884. 4°. xiii, 200 pp. 16 pl. Price $1.20.

VIII. Paleontology of the Eureka District, by Charles Doolittle Walcott. 1884. 4°. xiii, 298 pp. 24 l. 24 pl. Price $1.10.

IX. Brachiopoda and Lamellibranchiata of the Raritan Clays and Greensand Marls of New Jersey, by Robert P. Whitfield. 1885. 4°. xx, 338 pp. 35 pl. 1 map. Price $1.15.

X. Dinocerata. A Monograph of an Extinct Order of Gigantic Mammals, by Othniel Charles Marsh. 1886. 4°. xviii, 243 pp. 56 l. 56 pl. Price $2.70.

XI. Geological History of Lake Lahontan, a Quaternary Lake of Northwestern Nevada, by Israel Cook Russell. 1885. 4°. xiv, 288 pp. 46 pl. and maps. Price $1.75.

XII. Geology and Mining Industry of Leadville, Colorado, with Atlas, by Samuel Franklin Emmons. 1886. 4°. xxix, 770 pp. 45 pl. and atlas of 35 sheets folio. Price $8.40.

XIII. Geology of the Quicksilver Deposits of the Pacific Slope, with Atlas, by George F. Becker. 1888. 4°. xix, 486 pp. 7 pl. and atlas of 14 sheets folio. Price $2.00.

XIV. Fossil Fishes and Fossil Plants of the Triassic Rocks of New Jersey and the Connecticut Valley, by John S. Newberry. 1888. 4°. xiv, 152 pp. 26 pl. Price $1.00.

XV. The Potomac or Younger Mesozoic Flora, by William Morris Fontaine. 1889. 4°. xiv, 377 pp. 180 pl. Text and plates bound separately. Price $2.50.

XVI. The Paleozoic Fishes of North America, by John Strong Newberry. 1889. 4°. 340 pp. 53 pl. Price $1.00.

XVII. The Flora of the Dakota Group, a Posthumous Work, by Leo Lesquereux. Edited by F. H. Knowlton. 1891. 4°. 400 pp. 66 pl. Price $1.10.

XVIII. Gasteropoda and Cephalopoda of the Raritan Clays and Greensand Marls of New Jersey, by Robert P. Whitfield. 1891. 4°. 402 pp. 50 pl. Price $1.00.

XIX. The Penokee Iron-Bearing Series of Northern Wisconsin and Michigan, by Roland D. Irving and C. R. Van Hise. 1892. 4°. xix, 534 pp. 37 pl. Price $1.70.

XX. Geology of the Eureka District, Nevada, with Atlas, by Arnold Hague. 1892. 4°. xvii, 419 pp. 8 pl. Price $5.25.

XXI. The Tertiary Rhynchophorous Coleoptera of North America, by Samuel Hubbard Scudder. 1893. 4°. xi, 206 pp. 18 pl. Price 90 cents.

XXII. A Manual of Topographic Methods, by Henry Gannett, Chief Topographer. 1893. 4°. xiv, 300 pp. 18 pl. Price $1.00.

XXIII. Geology of the Green Mountains in Massachusetts, by Raphael Pumpelly, J. E. Wolff, and T. Nelson Dale. 1894. 4°. xiv, 206 pp. 23 pl. Price $1.30.

XXIV. Mollusca and Crustacea of the Miocene Formations of New Jersey, by Robert Parr Whitfield. 1894. 4°. 195 pp. 24 pl. Price 90 cents.

XXV. The Glacial Lake Agassiz, by Warren Upham. 1895. 4°. xxiv, 658 pp. 38 pl. Price $1.70.

XXVI. Flora of the Amboy Clays, by John Strong Newberry; a Posthumous Work, edited by Arthur Hollick. 1895. 4°. 260 pp. 58 pl. Price $1.00.

XXVII. Geology of the Denver Basin, Colorado, by S. F. Emmons, Whitman Cross, and George H. Eldridge. 1896. 4°. 556 pp. 31 pl. Price $1.50.

XXVIII. The Marquette Iron-Bearing District of Michigan, with Atlas, by C. R. Van Hise and W. S. Bayley; including a Chapter on the Republic Trough, by H. L. Smyth. 1897. 4°. 608 pp. 35 pl. and atlas of 39 sheets folio. Price $5.75.

XXIX. Geology of Old Hampshire County, Massachusetts, comprising Franklin, Hampshire, and Hampden Counties, by Benjamin Kendall Emerson. 1898. 4°. xxi, 790 pp. 35 pl. Price $1.90.

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10. Irrigation in Mesilla Valley, New Mexico, by F. C. Barker. 1898. 8°. 51 pp. 11 pl.
11. River Heights for 1896, by Arthur P. Davis. 1897. 8°. 100 pp.
12. Underground waters of Southeastern Nebraska, by N. H. Darton. 1898. 8°. 56 pp. 21 pl.
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25. Water Resources of the State of New York, Part II, by G. W. Rafter. 1899. 8°. 101–200 pp. 12 pl.
26. Wells of Southern Indiana (Continuation of No. 21), by Frank Leverett. 1899. 8°. 64 pp.
27. Operations at River Stations for 1898, Part I. 1899. 8°. 100 pp.
28. Operations at River Stations for 1898, Part II. 1899. 8°. 101–200 pp.
29. Wells and Windmills in Nebraska, by Erwin H. Barbour. 1899. 8°. 85 pp. 27 pl.
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32. Water Resources of Puerto Rico, by Herbert M. Wilson. 1899. 8°. 48 pp. 17 pl.
33. Storage of Water on Gila River, Arizona, by Joseph B. Lippincott. 1900. 8°. 98 pp. 33 pl.
34. Geology and water resources of SE. South Dakota, by J. E. Todd. 1900. 8°. 34 pp. 19 pls.

In preparation:

35. Operations at River Stations, 1899, Part I.
36. Operations at River Stations, 1899, Part II.
37. Operations at River Stations, 1899, Part III.
38. Operations at River Stations, 1899, Part IV.
39. Operations at River Stations, 1899, Part V.

TOPOGRAPHIC MAP OF THE UNITED STATES.

When, in 1882, the Geological Survey was directed by law to make a geologic map of the United States, there was in existence no suitable topographic map to serve as a base for the geologic map. The preparation of such a topographic map was therefore immediately begun. About one-fifth of the area of the country, excluding Alaska, has now been thus mapped. The map is published in atlas sheets, each sheet representing a small quadrangular district, as explained under the next heading. The separate sheets are sold at 5 cents each when fewer than 100 copies are purchased, but when they are ordered in lots of 100 or more copies, whether of the same sheet or of different sheets, the price is 2 cents each. The mapped areas are widely scattered, nearly every State being represented. About 900 sheets have been engraved and printed; they are tabulated by States in the Survey's "List of Publications," a pamphlet which may be had on application.

The map sheets represent a great variety of topographic features, and with the aid of descriptive text they can be used to illustrate topographic forms. This has led to the projection of an educational series of topographic folios, for use wherever geography is taught in high schools, academies, and colleges. Of this series the first two folios have been issued, viz:

1. Physiographic types, by Henry Gannett, 1898, folio, consisting of the following sheets and 4 pages of descriptive text: Fargo (N. Dak.-Minn.), a region in youth; Charleston (W. Va.), a region in maturity; Caldwell (Kans.), a region in old age; Palmyra (Va.), a rejuvenated region; Mount Shasta (Cal.), a young volcanic mountain; Eagle (Wis.), moraines; Sun Prairie (Wis.), drumlins; Donaldsonville (La.), river flood plains; Boothbay (Me.), a fiord coast; Atlantic City (N. J.), a barrier-beach coast.

2. Physiographic types, by Henry Gannett, 1900, folio, consisting of the following sheets and 11 pages of descriptive text: Norfolk (Va.-N. C.), a coast swamp; Marshall (Mo.), a graded river; Lexington (Nebr.), an overloaded stream; Harrisburg (Pa.), Appalachian ridges; Poteau Mountain (Ark.-Ind. T.), Ozark ridges; Marshall (Ark.), Ozark Plateau; West Denver (Colo.), hogbacks; Mount Taylor (N. Mex.), volcanic peaks, plateaus, and necks; Cucamonga (Cal.), alluvial cones; Crater Lake special (Oreg.), a crater.

GEOLOGIC ATLAS OF THE UNITED STATES.

The Geologic Atlas of the United States is the final form of publication of the topographic and geologic maps. The atlas is issued in parts, or folios, progressively as the surveys are extended, and is designed ultimately to cover the entire country.

Under the plan adopted the entire area of the country is divided into small rectangular districts (designated *quadrangles*), bounded by certain meridians and parallels. The unit of survey is also the unit of publication, and the maps and descriptions of each rectangular district are issued as a folio of the Geologic Atlas.

Each folio contains topographic, geologic, economic, and structural maps, together with textual descriptions and explanations, and is designated by the name of a principal town or of a prominent natural feature within the district.

Two forms of issue have been adopted, a "library edition" and a "field edition." In both the sheets are bound between heavy paper covers, but the library copies are permanently bound, while the sheets and covers of the field copies are only temporarily wired together.

Under the law a copy of each folio is sent to certain public libraries and educational institutions. The remainder are sold at 25 cents each, except such as contain an unusual amount of matter, which are priced accordingly. Prepayment is obligatory. The folios ready for distribution are here listed.

No.	Name of sheet.	State.	Limiting meridians.	Limiting parallels.	Area, in square miles.	Price, in cents.
1	Livingston	Montana	110°–111°	45°–46°	3,354	25
2	Ringgold	Georgia, Tennessee	85°–85° 30′	34° 30′–35°	980	25
3	Placerville	California	120° 30′–121°	38° 30′–39°	932	25
4	Kingston *a*	Tennessee	84° 30′–85°	35° 30′–36°	969	25
5	Sacramento	California	121°–121° 30′	38° 30′–39°	932	25
6	Chattanooga	Tennessee	85°–85° 30′	35°–35° 30′	975	25
7	Pikes Peak *a*	Colorado	105°–105° 30′	38° 30′–39°	932	25
8	Sewanee	Tennessee	85° 30′–86°	35°–35° 30′	975	25
9	Anthracite-Crested Butte.	Colorado	106° 45′–107° 15′	38° 45′–39°	465	50
10	Harpers Ferry	Virginia, West Va., Maryland.	77° 30′–78°	39°–39° 30′	925	25
11	Jackson	California.	120° 30′–121°	38°–38° 30′	938	25
12	Estillville	Virginia, Kentucky, Tennessee	82° 30′–83°	36° 30′–37°	957	25
13	Fredericksburg	Maryland, Virginia	77°–77° 30′	38°–38° 30′	938	25
14	Staunton	Virginia, West Va.	79°–79° 30′	38°–38° 30′	938	25
15	Lassen Peak	California.	121°–122°	40°–41°	3,634	25
16	Knoxville	Tennessee, N. Carolina	83° 30′–84°	35° 30′–36°	925	25
17	Marysville	California	121° 30′–122°	39°–39° 30′	925	25
18	Smartsville	California	121°–121° 30′	39°–39° 30′	925	25
19	Stevenson	Alabama, Georgia, Tennessee	85° 30′–86°	34° 30′–35°	980	25
20	Cleveland	Tennessee	84° 30′–85°	35°–35° 30′	975	25
21	Pikeville	Tennessee	85°–85° 30′	35° 30′–36°	969	25
22	McMinnville	Tennessee	85° 30′–86°	35° 30′–36°	969	25
23	Nomini	Maryland, Virginia	76° 30′–77°	38°–38° 30′	938	25
24	Three Forks	Montana	111°–112°	45°–46°	3,354	50
25	Loudon	Tennessee	84°–84° 30′	35° 30′–36°	969	25
26	Pocahontas	Virginia, West Va.	81°–81° 30′	37°–37° 30′	951	25
27	Morristown	Tennessee	83°–83° 30′		963	25
28	Piedmont	Maryland, West Va.	79°–79° 30′	39°–39° 30′	925	25
29	Nevada City: Nevada City.	California.	121° 00′ 25″–121° 03′ 45″	39° 13′ 50″–39° 17′ 16″	11.65	50
	Grass Valley.		121° 01′ 35″–121° 05′ 04″	39° 10′ 22″–39° 13′ 50″	12.09	
	Banner Hill.		120° 57′ 05″–121° 00′ 25″	39° 13′ 50″–39° 17′ 16″	11.65	
30	Yellowstone National Park: Gallatin Canyon Shoshone Lake	Wyoming.	110°–111°	44°–45°	3,412	75
31	Pyramid Peak	California.	120°–120° 30′	38° 30′–39°	932	25
32	Franklin	Virginia, West Va.	79°–79° 30′	38° 30′–39°	932	25
33	Briceville	Tennessee	84°–84° 30′	36′–36° 30′	963	25
34	Buckhannon	West Va.	80°–80° 30′	38° 30′–39°	932	25
35	Gadsden	Alabama.	86°–86° 30′	34°–34° 30′	986	25
36	Pueblo	Colorado.	104° 30′–105°	38°–38° 30′	938	50
37	Downieville	California.	120° 30′–121°	39° 30′–40°	919	25
38	Butte Special	Montana.	112° 29′ 30″–112° 36′ 42″	45° 59′ 28″–46° 02′ 54″	22.80	50
39	Truckee	California.	120°–120° 30′	39°–39° 30′	925	25
40	Wartburg	Tennessee	84° 30′–85°	36°–36° 30′	963	25
41	Sonora	California.	120°–120° 30′	37° 30′–38°	944	25
42	Nueces	Texas	100°–100° 30′	29° 30′–30°	1,035	25
43	Bidwell Bar	California.	121°–121° 30′	39° 30′–40°	918	25
44	Tazewell	Virginia, West Va.	81° 30′–82°	37°–37° 30′	950	25
45	Boise	Idaho	116°–116° 30′	43° 30′–44°	864	25
46	Richmond	Kentucky	84°–84° 30′	37° 30′–38°	944	25
47	London	Kentucky	84°–84° 30′	37°–37° 30′	950	25
48	Tenmile District Special.	Colorado.	106° 8′–106° 16′	39° 22′ 30″–39° 30′ 30″	55	25
49	Roseburg	Oregon	123°–123° 30′	43°–43° 30′	871	25
50	Holyoke	Mass, Conn	72° 30′–73°	42°–42° 30′	885	50
51	Big Trees	California	120°–120° 30′	38°–38° 30′	938	25
52	Absaroka: Crandall Iahawoon	Wyoming.	109° 30′–110°	44°–44° 30′	1,706	25
53	Standingstone	Tennessee	85°–85° 30′	36°–36° 30′	963	25

a Out of stock.

No.	Name of sheet.	State.	Limiting meridians.	Limiting parallels.	Area, in square miles.	Price, in cents.
54	Tacoma	Washington.	122°–122° 30′	47°–47° 30′	812	25
55	Fort Benton	Montana	110°–111°	47°–48°	3,273	25
56	Little Belt Mts	Montana	110°–111°	46°–47°	3,295	25
57	Telluride	Colorado	107° 45′–108°	37° 45′–38°	236	25
58	Elmoro	Colorado	104°–104° 30′	37°–37° 30′	950	25

STATISTICAL PAPERS.

Mineral Resources of the United States, 1882, by Albert Williams, jr. 1883. 8°. xvii, 813 pp. Price 50 cents.

Mineral Resources of the United States, 1883 and 1884, by Albert Williams, jr. 1885. 8°. xiv, 1016 pp. Price 60 cents.

Mineral Resources of the United States, 1885. Division of Mining Statistics and Technology. 1886. 8°. vii, 576 pp. Price 40 cents.

Mineral Resources of the United States, 1886, by David T. Day. 1887. 8°. viii, 813 pp. Price 50 cents.

Mineral Resources of the United States, 1887, by David T. Day. 1888. 8°. vii, 832 pp. Price 50 cents.

Mineral Resources of the United States, 1888, by David T. Day. 1890. 8°. vii, 652 pp. Price 50 cents.

Mineral Resources of the United States, 1889 and 1890, by David T. Day. 1892. 8°. viii, 671 pp. Price 50 cents.

Mineral Resources of the United States, 1891, by David T. Day. 1893. 8°. vii, 630 pp. Price 50 cents.

Mineral Resources of the United States, 1892, by David T. Day. 1893. 8°. vii, 850 pp. Price 50 cents.

Mineral Resources of the United States, 1893, by David T. Day. 1894. 8°. viii, 810 pp. Price 50 cents.

On March 2, 1895, the following provision was included in an act of Congress:

"*Provided*, That hereafter the report of the mineral resources of the United States shall be issued, as a part of the report of the Director of the Geological Survey."

In compliance with this legislation the following reports have been published:

Mineral Resources of the United States, 1894, David T. Day, Chief of Division. 1895. 8°. xv, 646 pp., 23 pl.; xix, 735 pp., 6 pl. Being Parts III and IV of the Sixteenth Annual Report.

Mineral Resources of the United States, 1895, David T. Day, Chief of Division. 1896. 8°. xxiii, 542 pp., 8 pl. and maps; iii, 543–1058 pp., 9–13 pl. Being Part III (in 2 vols.) of the Seventeenth Annual Report.

Mineral Resources of the United States, 1896. David T. Day, Chief of Division. 1897. 8°. xii, 642 pp., 1 pl.; 643–1400 pp. Being Part V (in 2 vols.) of the Eighteenth Annual Report.

Mineral Resources of the United States, 1897, David T. Day, Chief of Division. 1898. 8°. viii, 651 pp., 11 pl.; viii, 706 pp. Being Part VI (in 2 vols.) of the Nineteenth Annual Report.

Mineral Resources of the United States, 1898, David T. Day, Chief of Division. 1899. 8°. viii, 616 pp.; ix, 804 pp., 1 pl. Being Part VI (in 2 vols.) of the Twentieth Annual Report.

The money received from the sale of the Survey publications is deposited in the Treasury, and the Secretary of the Treasury declines to receive bank checks, drafts, or postage stamps; all remittances, therefore, must be by MONEY ORDER, made payable to the Director of the United States Geological Survey, or in CURRENCY—the exact amount. Correspondence relating to the publications of the Survey should be addressed to—

THE DIRECTOR,
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WASHINGTON, D. C.

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8°. 13 pp.

Author.

Gannett (Henry).

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